



EOSC National Event Bulgaria
State of Play of EOSC

Wilhelm Widmark, Director EOSC Association

28 March 2023 by EOSC-A





eosC



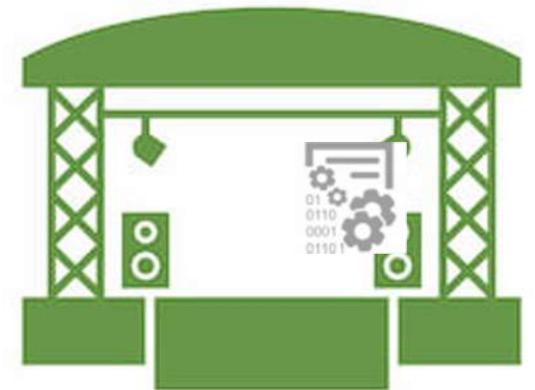
28 March 2023

Tripartite Event | Bulgaria

28 March 2023 by EOSC-A

“A web of scientific insight”

- **Web of FAIR Data and related Services**
- **Federation of relevant existing and future data sources**
- **Virtual space where science producers and consumers come together**
- **An open-ended range of content and services**
- **Meeting all European data requirements**
- **In interaction with other regions of the world**



Guiding principles for EOSC

The overarching principle for developing EOSC is that research has to be at the centre of the EOSC initiative.

- ***Multi-stakeholderism***
EOSC will succeed if and only if it follows a multi-stakeholder approach;
- ***Openness***
EOSC will ensure research artefacts be ‘as open as possible, as restricted as necessary’;
- ***FAIR principles***
EOSC research artefacts need to be findable, accessible, interoperable and reusable;
- ***Federation of infrastructures***
EOSC will federate existing and upcoming data- and e-infrastructures;
- ***Machine-actionable***
EOSC will strike the right balance between machines and people in delivering the services that will serve the needs of European scientists.

Position of EOSC according to the European Commission

Taken from EC slides



“EOSC is the basis for a science, research and innovation data space that will bring together data resulting from research and deployment programmes and will be connected and articulated with the sectoral data spaces”

(European Data Strategy, COM(2020) 66 final)

What

EOSC is a web of FAIR data and related services for research

Research data that is easy to find, access, interoperate and reuse (FAIR)
Trusted and sustainable research outputs are available within and across scientific disciplines

Why

Unlock the full potential of research data to accelerate discoveries and innovation

How

Access and interoperability of research data and results

- Define ownership, authorship and responsibility of data and research outputs
- Ensure long-term preservation of data throughout its lifecycle
- Enable the creation of standards for all research domains
- Make data machine-actionable
- Enable new scientific discovery methods and science disciplines
- Train researchers on adopting FAIR principles as an integral part in their activity

A sustainable coordinated infrastructure

- Establish and maintain a coordinated federated reference architecture
- Implement an operational infrastructure framework that is long term sustainable
- Ensure high quality of data and services
- Ensure secure access to data and services
- Define clear standards for API and interoperability of data and services
- Apply user friendly practices
- Inspire EOSC ambassadors to assist in on-boarding of researchers

Inspired people and robust governance

- Communicate an inspiring EOSC vision and strategy
- Implement an unambiguous and clearly mandated governance structure
- Establish a framework to engage human capital in institutions, countries and scientific communities
- Enable disciplinary and cross-disciplinary transnational research to find new insights from existing and new research data and outputs

eosc EOOSC Association – the Voice of the Community

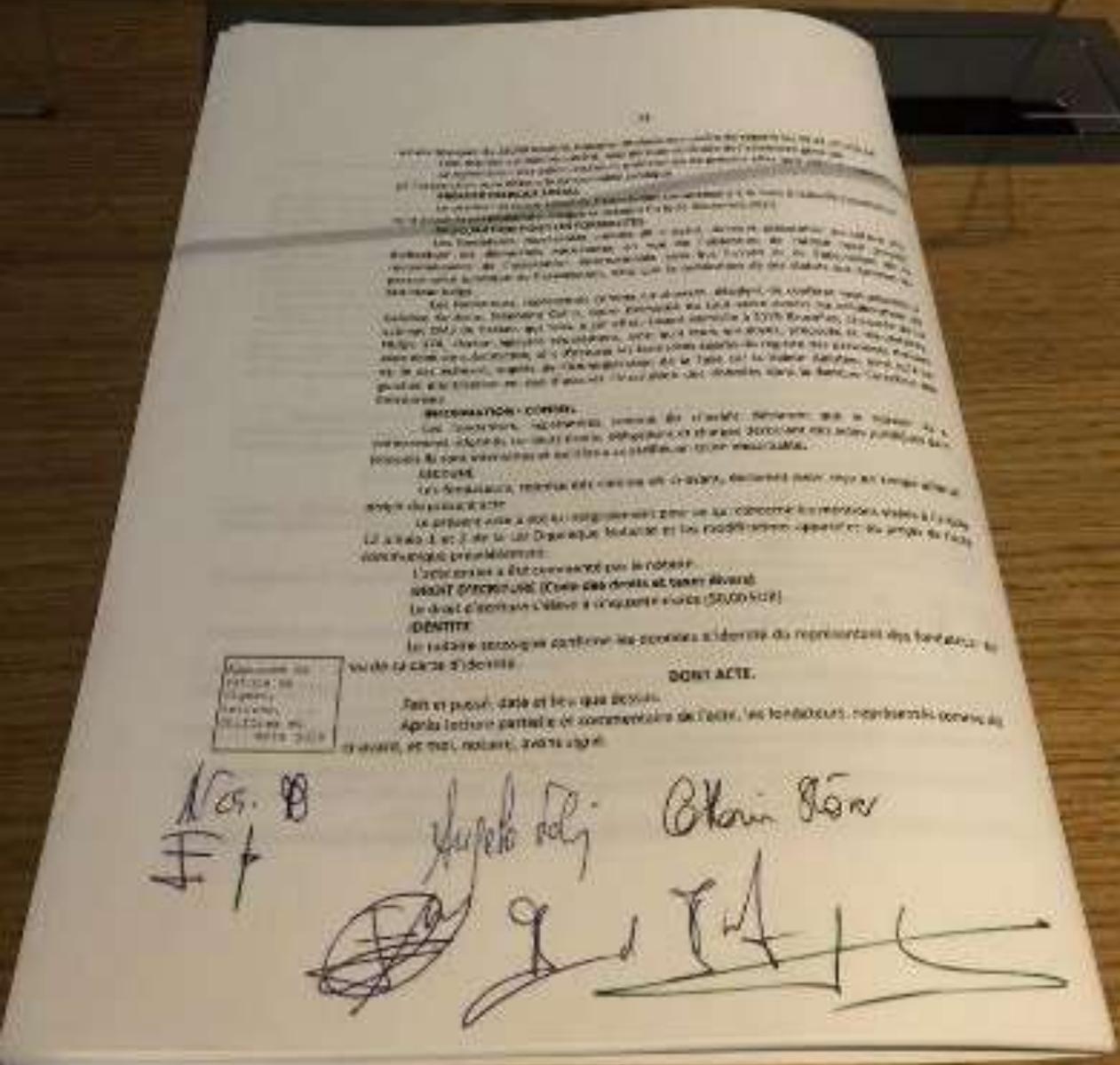
Next General Assembly #6, 22-23 May 2023



The Purpose of EOSC-A

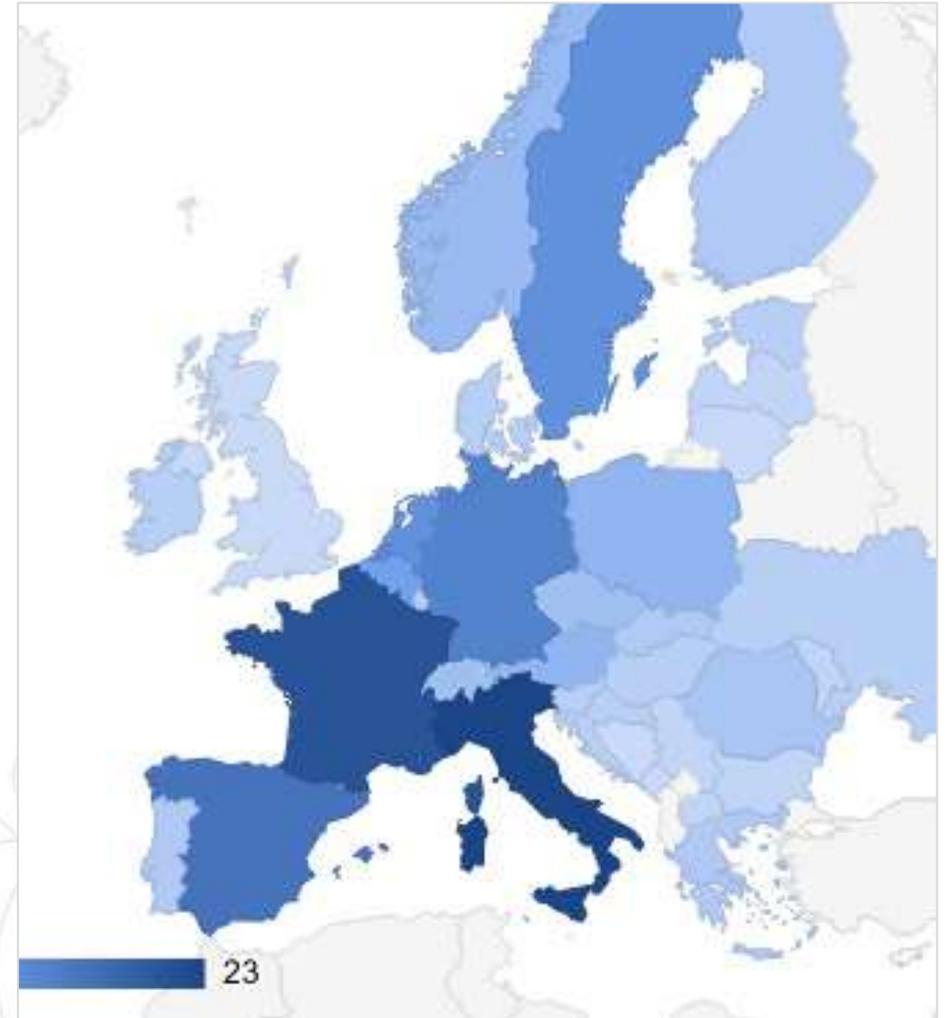
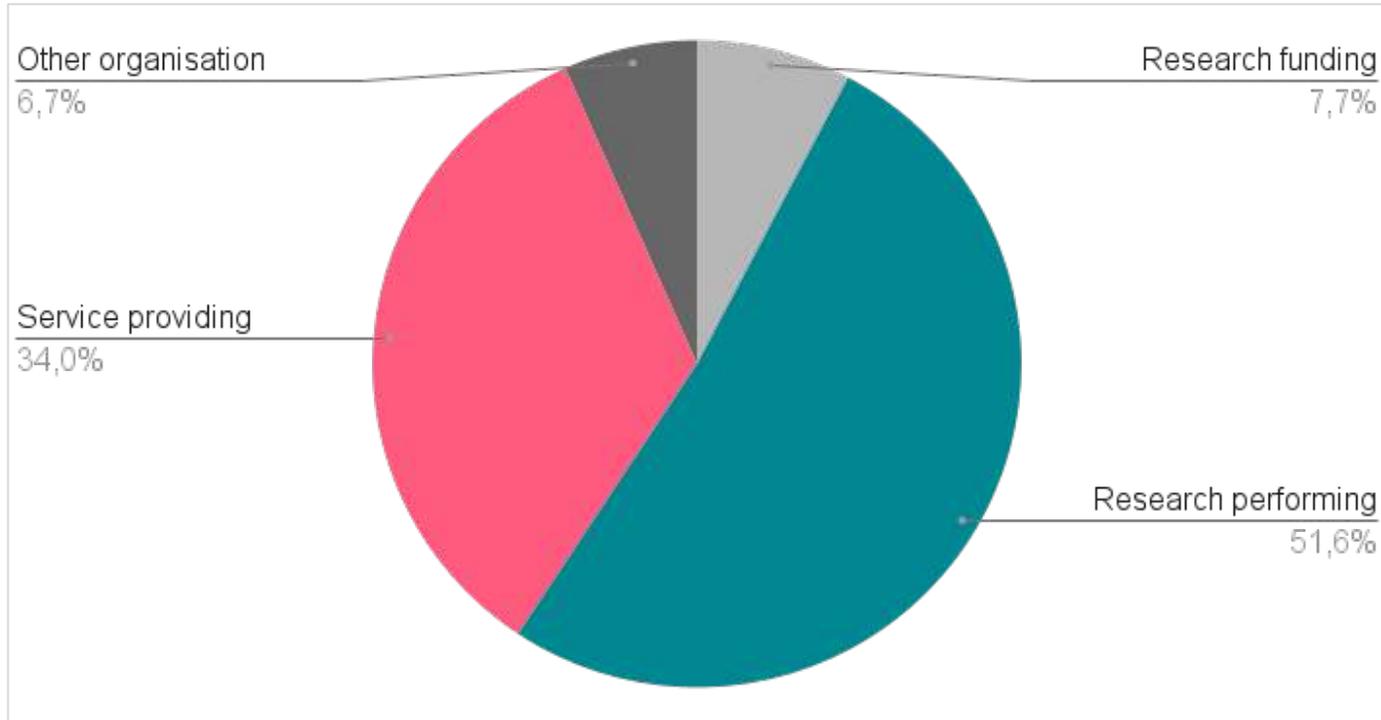
Incorporation, 29 July 2020

- (1) to provide a single voice for the advocacy and representation of the broader EOSC stakeholder community,
- (2) to promote the alignment of European Union research policy and priorities with activities coordinated by the Association;
- (3) to enable seamless access to data through interoperable services that address the entire research data life cycle.



168 Members and 81 Observers

A strong memberbase



EOSC-A Brain-Pool: 13 Task Forces

Over 400 volunteers

Implementation of EOSC

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption

Technical challenges on EOSC

- Technical interoperability of data and services
- Infrastructure for quality research software
- AAI Architecture

Metadata and data quality

- Semantic interoperability
- FAIR metrics and data quality

Research careers and curricula

- Data stewardship curricula and career paths
- Research careers, recognition and credit
- Upskilling countries to engage in EOSC

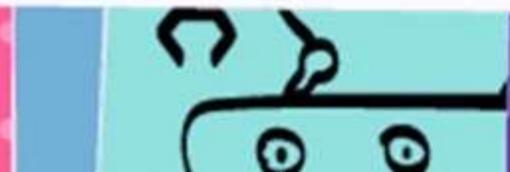
Sustaining EOSC

- Financial sustainability
- Long-term data preservation



Horizon Europe co-programmed EOSC Partnership

- Launched June 2021
- One billion euros commitment by the European Union and the EOSC Association



eosc SRIA and MAR

Strategic Research and Innovation Agenda



Open Science practices and skills are rewarded and taught, becoming the 'new normal'

Standards, tools and services allow researchers to find, access, reuse and combine results

Sustainable and federated infrastructures enable open sharing of scientific results

Multi-annual roadmap sets priority activities and outcomes grouped by three implementation levels – European, National, Institutional

Three phases of MAR

- 2021-2022: development towards a functional federation of infrastructure
- 2023-2024: expansion to production that generates added value
- **2025-2027: expansion to develop impact from Open Science**

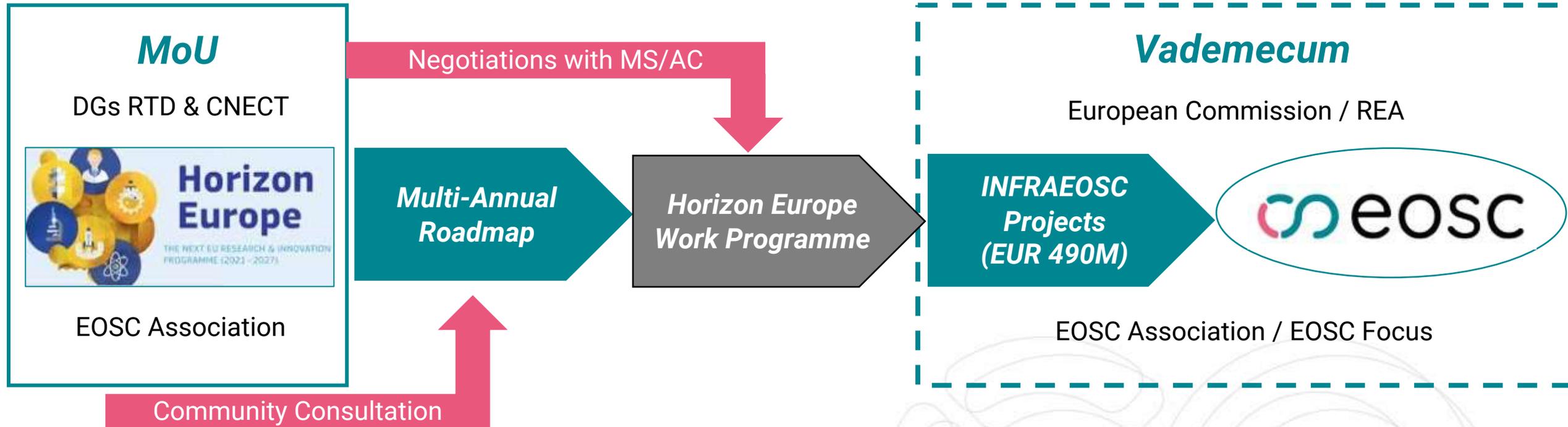
Consultation Open

The EC's Commitments

- **The MoU is established between the Partners**
 - The EU represented by the Commission
 - The EOSC Association (“Partners other than the Union”), including its constituent entities (members)
- **The MoU is a contractual arrangement, not legally binding**
- **Scope & objectives**
 - To contribute to the objectives defined in the SRIA incl. the KPIs to measure progress
 - Expected financial and in-kind commitments by the partners (490 MEUR + 500 MEUR)
- **Governance: Partnership Board**
 - Composition: Representatives appointed by the Partners other than the Union, Commission officials and Representatives of the Steering Board
- **Commitments of the EC**
 - To duly take into account the input and advice from EOSC-A when defining call topics relative to the scope and objectives of the SRIA
- **Commitments of EOSC-A**
 - In-kind contributions
 - Monitoring and Reporting

eosc Delivering EOSC – the Process

The critical role of the INFRAEOSC Projects



eosc Horizon Europe INFRAEOSC Projects / 2021

AI4 | eosc

eosc | FAIR-EASE eosc | Focus

eosc | cancer Skills
4 eosc

eosc | RAISE eosc | FAIR-IMPACT

eosc | FAIRCORE4EOSC

eosc | EuroScienceGateway

 **Horizon Europe INFRAEOSC Projects / 2022**

 | **AquaINFRA**

 | **Blue-Cloud2026**
A federated European FAIR and Open Research Ecosystem
for oceans, seas, coastal and inland waters

 **TIGER**

 | **CRAFT-OA**
Part of the OPERAS Network

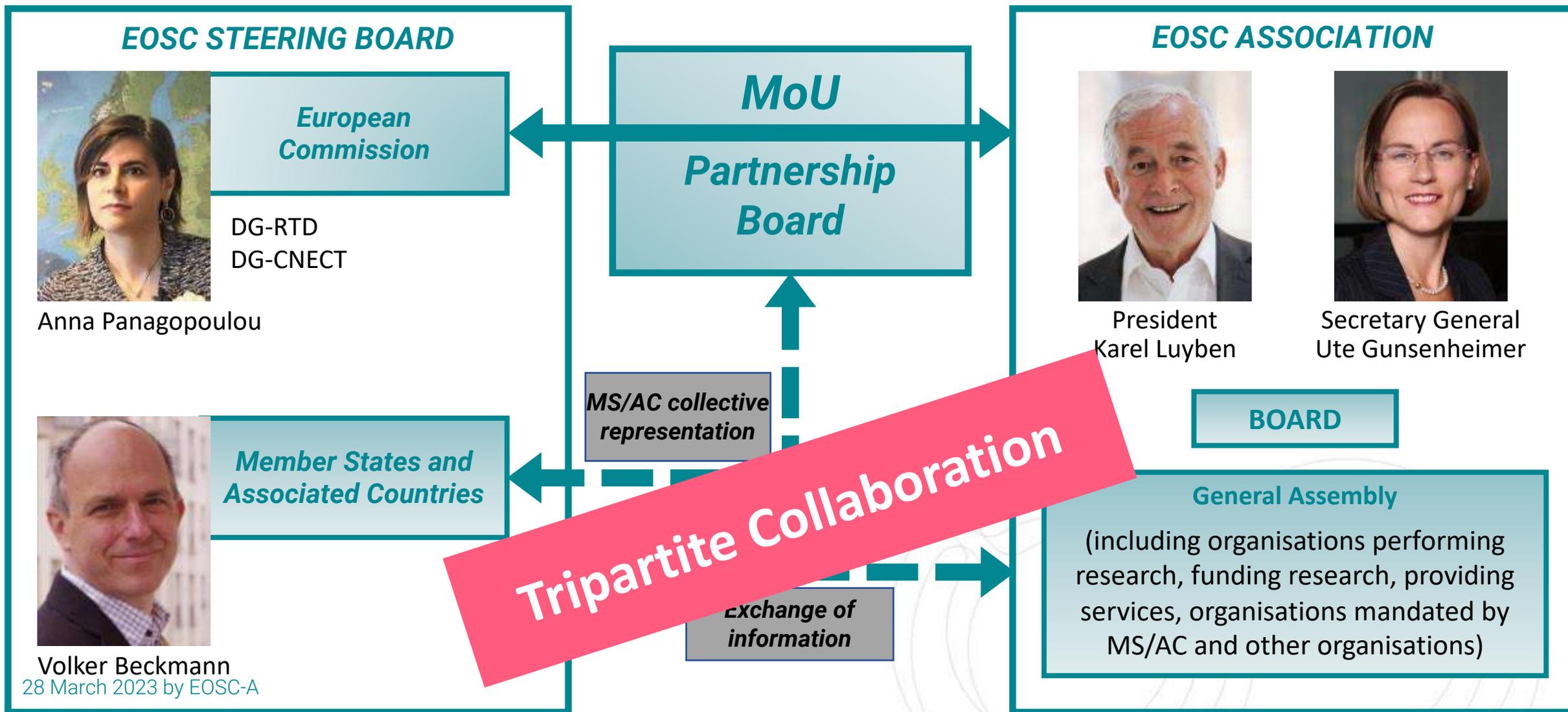





open research metrics dataspace

eosc EOSC Partnership

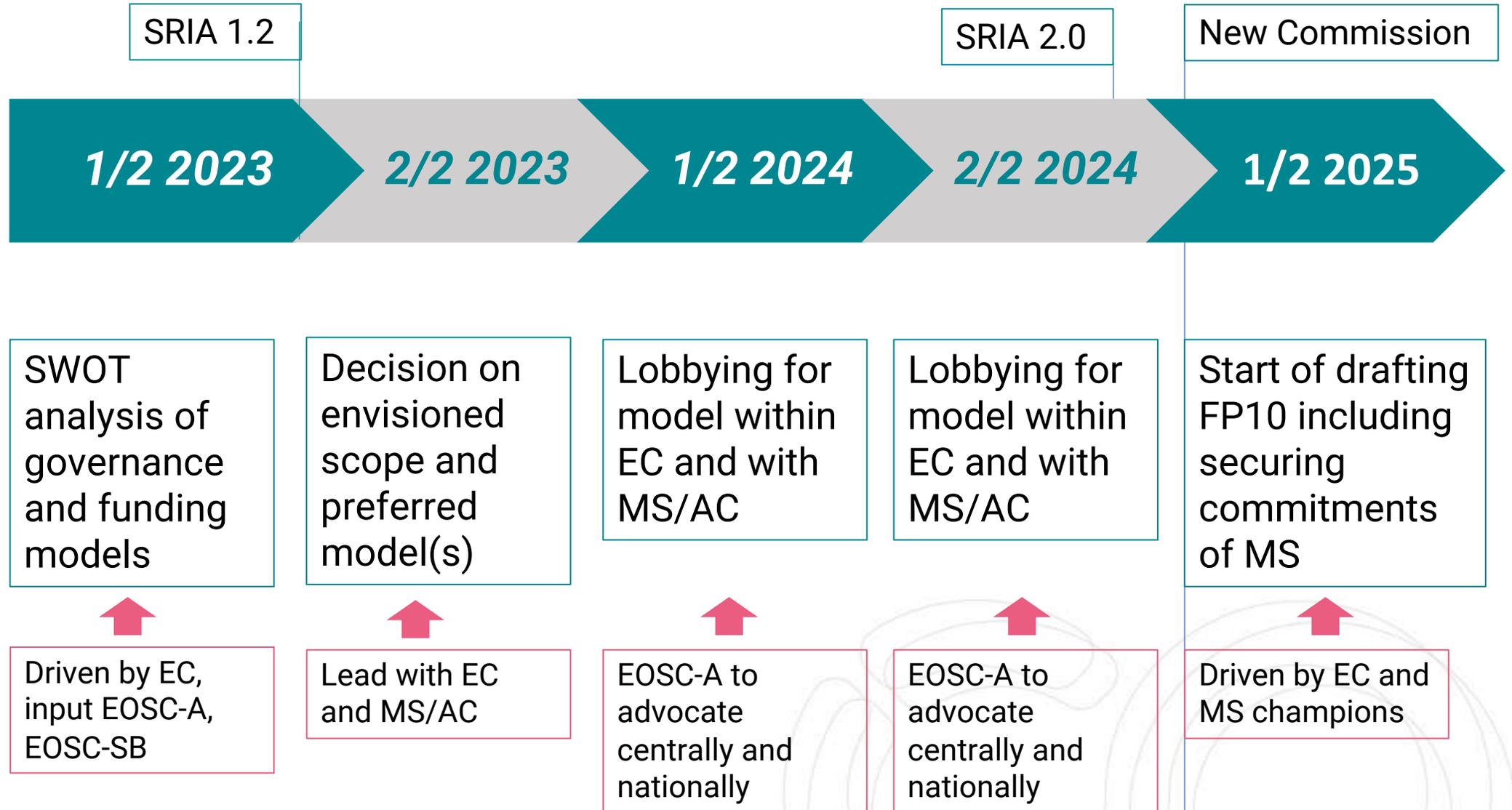
Tripartite Collaboration



Volker Beckmann
28 March 2023 by EOSC-A



Rough timeline for scoping the future



Let's co-create EOSC





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THANKS

